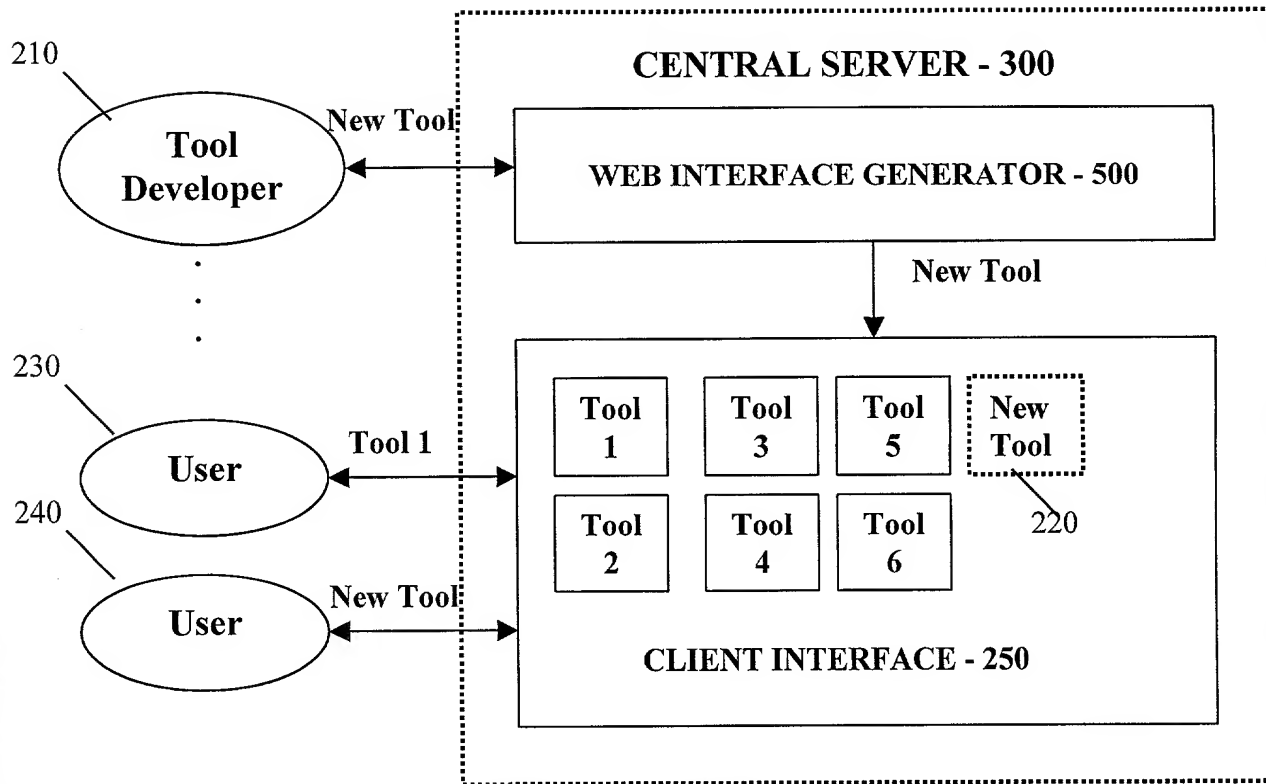
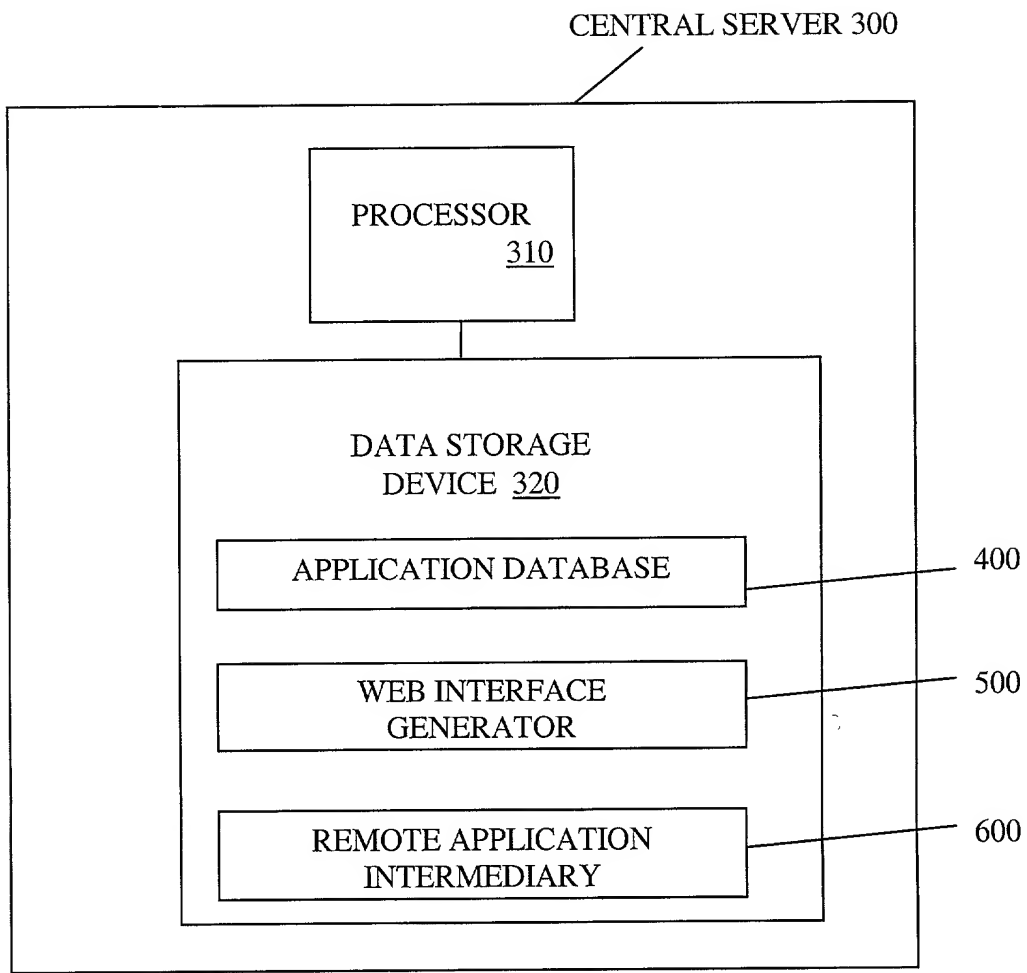


**FIG. 1**



**FIG. 2**



**FIG. 3**

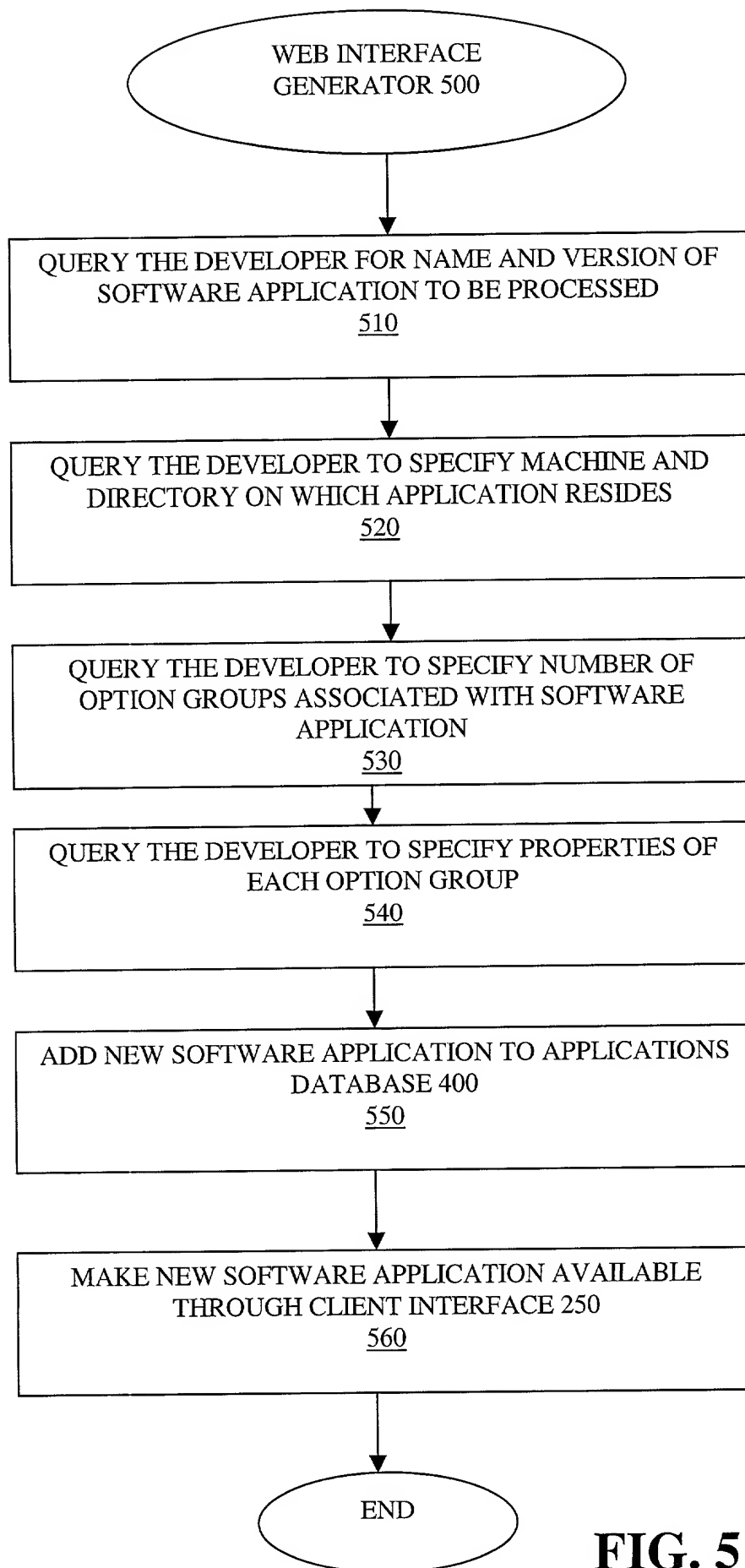
APPLICATION DATABASE 400  
(OBJECT TEMPLATE)

```
Class point_tool
{
    410 {
        var name;
        var version;
        var location;
        array option1[];
        array option2[];

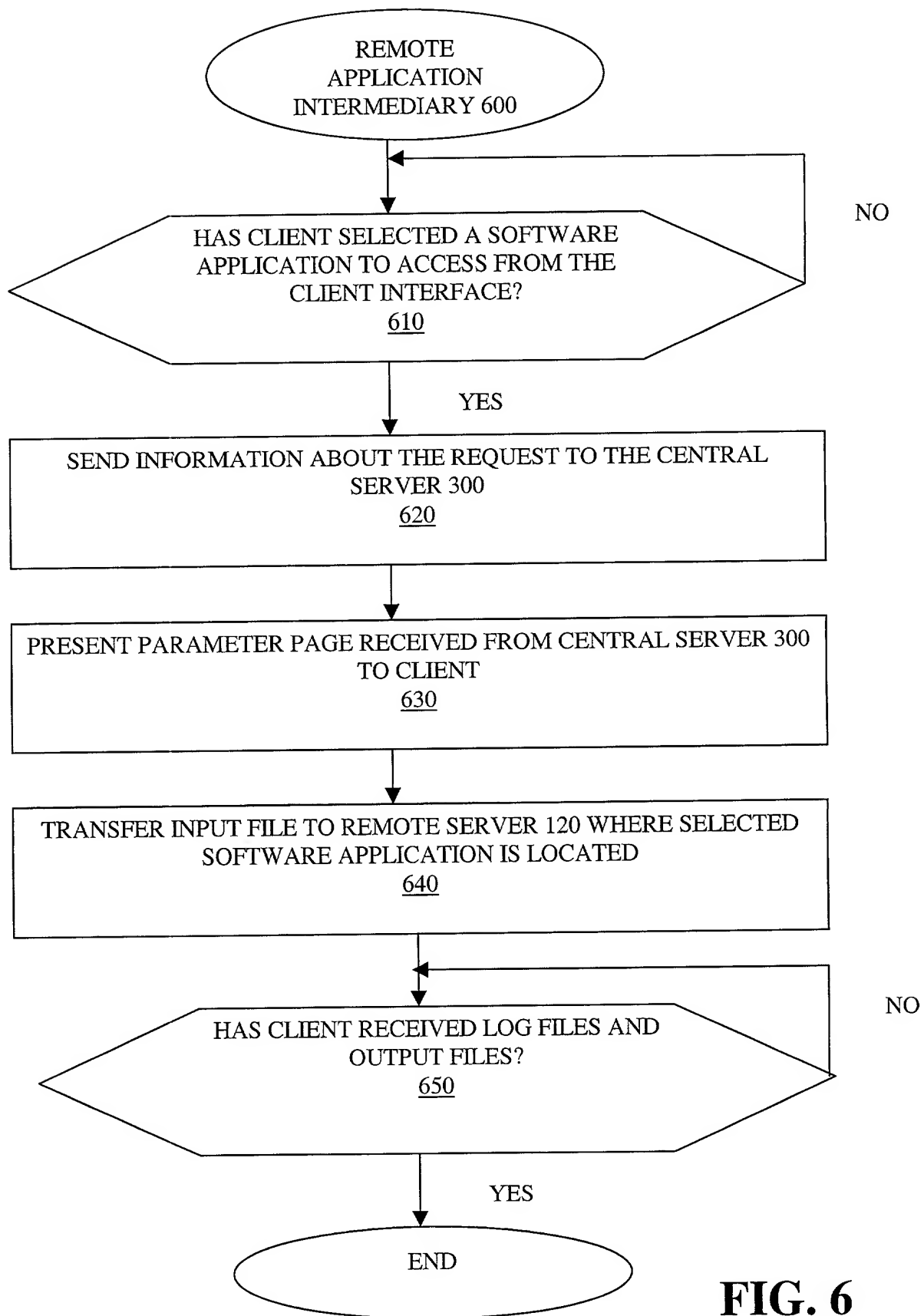
        // each of the following functions when invoked by the administrator add, delete and
        // modify respectively the software application.
        public:
        420 {
            function add_tool();
            function delete_tool();
            function modify_tool();

            // the following function when invoked by the client executes the tool with the specified
            // parameters.
            430 {
                function use_tool(var,var,var....);
            };
        };
    };
};
```

**FIG. 4**



**FIG. 5**



**FIG. 6**

# EXEMPLARY APPLICATION OPTION LIST - 700

Option Name	Constraints
-E, -S, -c	<ul style="list-style-type: none"> <li>➤ Cannot be used together.</li> <li>➤ All need atleast one input file</li> </ul>
-D, -I, -U, -xc, -o	<ul style="list-style-type: none"> <li>➤ can be used together</li> <li>➤ can be used with any other option</li> <li>➤ Need exactly one input parameter</li> </ul>
-g, -O1	<ul style="list-style-type: none"> <li>➤ cannot be used together</li> <li>➤ No input parameters expected</li> </ul>
-Wj, -Wall	<ul style="list-style-type: none"> <li>➤ cannot be used together</li> <li>➤ No input parameters expected</li> </ul>

**FIG. 7**

## Addition of a new Point Tool

The general syntax of the point tools is as follows

**tool\_name** <option\_type1> <option\_type2>..... <file\_type>

Name of point tool  810

Version  820

Machine specification  830

IP Address of the Server  840

Location  850  
eg. tools/script.php

Number of options  860

FIG. 8



**Addition cont...**

*Initialize the Point Tool with the following data :*  
Number of Parameters at time of execution for Option 1 :

- ☒ Exactly one parameter
  - ☐ One or more than one parameter
  - ☐ None or more parameters
- } 910

Enter the Valid parameters for this option with a brief description of in seperate lines

*eg. -o For optimization*

```
-E preprocess only
-S generate assembly file
-c generate object file
```

} 950

Which of the following apply for the file input :

- ☐ Exactly one file
  - ☒ One or more files
  - ☐ None or more files
- } 970

**next** **cancel**

**FIG. 9**

### Point Tool Execution cont...

Choose one of the following options:

- ☐ -E preprocess only
- ☒ -S generate assembly file
- ☐ -c generate object file

Select any of the following options that apply:

- ☒ -D define macro
- ☐ -I additional include directories
- ☐ -U undefine macro
- ☐ -xc assume c source file
- ☐ -o output file

Select one of the following options that apply:

- ☒ -g generate debug info
- ☐ -O1 enable optimization (level 1)

Choose one of the following options.

- ☐ -Wj suppress warnings
- ☒ -Wall generates all warnings

next cancel

1050

1000



FIG. 10

## Point Tool Execution cont...

### File Uploads

Attach File for Parameter -S

limit.c Browse...

Attach File for Parameter -D

COMMAND\_4 Browse...

Attach Input File

vector.c Browse...

scalar.c Browse... select another file

Runtime output diverted to a file ? ☒ Yes ☐ No

next cancel

1150

1100

FIG. 11